

What is claimed is:

1. A housing of an electronic device comprising:

a side wall; and

a side key assembly, which engaged with the side wall, and comprising:

a key portion;

a flexible panel, having domes formed thereon and corresponding to the key portion; and

a flexible printed circuit board, having conducting tracks formed thereon; wherein

the flexible panel is arranged between the key portion and the flexible printed circuit board and each dome corresponds to a end of each conducting track such that when the key portion is depressed , it exerts a force and presses the flexible panel, and in responsive this pressure, one of the domes deformed on the flexible panel has a distortion and depresses to the flexible printed circuit board to actuate the conducting tracks on the flexible printed circuit board.

2. A housing of an electronic device with a side key assembly as described in claim 1, wherein the side key assemble further comprises an electronical panel, which electrical contactes with the conducting tracks formed on the flexible printed circuit board.

3. A housing of an electronic device with a side key assembly as described in claim 2, wherein the flexible printed circuit board couples with the electronical panel by means of hot pressure.

4. A housing of an electronic device with a side key assembly as described in claim 3, wherein the key portion comprises a body portion,

a user interface extending from the body portion and an contact portion extending from one inner side of the user interface.

5. A housing of an electronic device with a side key assembly as described in claim 4, wherein the side wall further comprises a plurality of stop walls, and an receiving space formed therebetween.

6. A housing of an electronic device with a side key assembly as described in claim 5, wherein each stop wall is in a “L” shape, and includes a long arm and a short arm, the long arm is parallel to the side wall, and the short arm extends from a bottom wall of the housing and near to the side wall.

7. A housing of an electronic device with a side key assembly as described in claim 6, wherein the side wall has a recess which responding with the stop wall, and a width of the recess is shorter than a distance of the two short arms.

8. A housing of an electronic device with a side key assembly as described in claim 7, wherein the key portion, the flexible panel and the electronical panel are placed in the receiving space, the side wall blocks the body portion of the key portion and the user interface extends out the recess.

9. A housing of an electronic device with a side key assembly as described in claim 1, a printed circuit board is builted in the housing, which electrically contacts with the conducting tracks formed on the flexible printed circuit board.

10. A housing of an electronic device with a side key assembly as described in claim 9, wherein the flexible printed circuit board is coupled to the printed circuit board by means of hot pressure.

11. A side key assembly for a housing of an electronic device, comprising:

a key portion;

a flexible panel, having domes formed thereon and corresponding to the key portion; and

a flexible printed circuit board, having conducting tracks formed thereon; wherein

the flexible panel is arranged between the key portion and the flexible printed circuit board and each dome corresponds to a end of each conducting track such that when the key portion is depressed , it exerts a force and presses the flexible panel, and in responsive this pressure, one of the domes deformed on the flexible panel has a distortion and depresses to the flexible printed circuit board to actuate the conducting tracks on the flexible printed circuit board.

12. A side key assembly for a housing of an electronic device as described in claim 11, wherein the housing further comprise a side wall, the side key assembly engages with the side wall.

13. A side key assembly for a housing of an electronic device as described in claim 12, wherein the side key assemble further comprises an electronical panel, which electrically contactes with the conducting tracks formed on the flexible printed circuit board.

14. A side key assembly for a housing of an electronic device as described in claim 13, wherein the flexible printed circuit board couples with the electronical panel by means of hot pressure.

15. A side key assembly for a housing of an electronic device as described in claim 14, wherein the key portion comprises a body portion,

a user interface extending from the body portion, and a contact portion extending from one inner side of the user interface.

16. A side key assembly for a housing of an electronic device as described in claim 15, wherein the side wall further comprises a plurality of stop walls, and a receiving space formed therebetween.

17. A side key assembly for a housing of an electronic device as described in claim 16, wherein each stop wall is in a “L” shape, and comprises a long arm and a short arm, the long arm is parallel to the side wall, and the short arm extends from a bottom wall of the housing and near to the side wall.

18. A side key assembly for a housing of an electronic device as described in claim 17, wherein the side wall has a recess which responding with the stop wall, and a width of the recess is shorter than a distance of the two short arms.

19. A side key assembly for a housing of an electronic device as described in claim 18, wherein the key portion, the flexible panel and the electronical panel are placed in the receiving space, the side wall blocks the body portion of the key portion and the user interface extends out the recess.

20. A side key assembly for a housing of an electronic device as described in claim 19, a printed circuit board is built in the housing, which electrical contacts with the conducting tracks formed on the flexible printed circuit board.

21. A side key assembly for a housing of an electronic device as described in claim 20, wherein the flexible printed circuit board is coupled to the printed circuit board by means of hot pressure.

22. A housing of an electronic device comprising:

a side wall, and

a side key assembly, which engages with the side wall, and comprising:

a key portion;

a flexible panel, which substantially abutting against the key portion; and

a flexible printed circuit board, having conducting tracks formed thereon;  
wherein

the flexible panel is arranged between the key portion and the flexible printed circuit board such that when the key portion is depressed , it exerts a force and presses the flexible panel, and in response this pressure, the flexible panel has a distortion and depresses to the flexible printed circuit board to actuate the conducting tracks on the flexible printed circuit board.

23. The housing as described in claim 22, wherein said flexible panel is metallic, and said flexible printed circuit board is further connected to an electrical panel which is engaged with said metallic flexible pane.